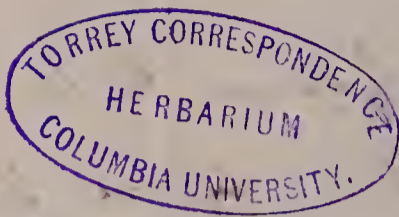


J. A. Agardh  
Recd. Aug. 16<sup>th</sup> 1839.

Lund, Sweden, Oct. 8. 1839.

Dear Sir!



It is some months ago I had the pleasure to receive a parcel, accompanied by an obliging letter of Jul. 6 1838 ~~from~~ to my Father, intended to be a introductory for Mr Thompson, who having, as I suppose, got some reason <sup>to alter</sup> the plan of his Journey, did not pay the intended visit to Lund. As heir of the Botanical obligations of my Father, who in his new place has little time to bestow on his favourite study, I beg now to address you, and return his most sincere compliments and thanks for the sent book. I should be happy if you would be willing to continue a correspondence which should be for me as useful as agreeable - I don't know if you are furnished with plants from our country; if not I shall be happy to send you any you should wish for. Returned since a year from a long Journey in the South of Europe. I am also well provided with plants from the South of France, the Pyrenees, Switzerland &c. You have only to tell me if you wish for any from those countries, and I shall with the first opportunity dispatch a complete set of my duplicates, or specimens of rarer ones, according to your wish in that

way.

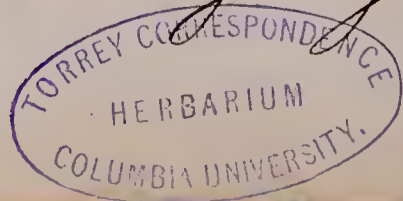
I have the pleasure to send you adjoined a copy of *Aphorismi*, which being the only one I now possess, I regret is a ugly one. I send you also some of my own little publications. As my father the last year has not been occupied with botany, I suppose you have already got the works he has published in that way. The last is his in Swedish written *Organographie and Biologie of plants*, which if you have not got them, I shall send you with the next occasion.

I suppose that since your last communication with my father you have much increased your stock of Duplicates; in such a case I should be happy to share in the spoils. Especially I should be very thankful for plants from the rocky mountains and northwest coast <sup>of America</sup> and also from the interior of your continent. Any communication will reach me if addressed to Gothenburg, care of O. Wik Esq., who has direct commercial communication with New York.

Believe me to be, with kind compliments from my father,

faithfully yours

James G. Agardh.



P.S. Of the Annals of the Lyceum of Nat. History we want the nos V-VIII  
of Vol. III. Perhaps you would have the kindness to send us the same occa-  
sionally -



Dr. John Torrey Esq

New York  
Museum of Natural History

9.

*Pappus biserialis*; <sup>serice</sup> ~~sub~~. coriiformi & aequa-  
mis 5-8 membranis brevibus; ~~int.~~ & setis  
paucis (5-24), scabris.

1. *P. Virginica*; glauca, foliis <sup>primariis</sup> ~~inferioribus~~ no-  
fundatis ~~interius~~ <sup>religiosis</sup> ~~lyratis~~ glabris  
scapo unifloro glabro demum foliis lon-  
giora, calyce glabro. Nutt. - Willd. *Sp.*  
*Pl.* p. 1618. Pursh, *Fl. Am.* v. 2. p. 534. *Pris-*  
*gelae*, *Fl. Mont.* ed. 2. p. 289. - *Myosotis*  
*virginica*. Linn. *Sp. Pl.* p. 1138. Michx.  
*Am.* v. 2. p. 88.

*Fl.* Canada. *Michx.* Pursh.

*trib. II. Cynarea*. Lessing.\*

*Subtrib. I. Centaurea*. Less.

14. *Centaurea* Linn.

*Involucrum imbricatum*. *Receptaculum* <sup>radicis</sup>  
*setosum*. *Pappus simplex* aut nullus. *Cor. floris*  
*ventri*, *si adest*, 5-partita.

1. *C. nigra*; involucri squamis ovatis persistenti-  
fimbriatis patulis, foliis radicalibus angu-  
lato-lyratis, caulibus oblongis, acris nullo.  
- Linn. *Sp. Pl.* p. 1288. *Engl. Bot.* t. 273.

Newfoundland. Miss Brenton. - Introduced.

\* Whilst this portion of the *Compositae* is in the  
press I have the great satisfaction of receiving the  
valuable "*Synopsis Generum Compositarum ear-  
umque Dispositionis nova tentamen*" of C.  
J. Lessing; & have no hesitation in <sup>as far as possible</sup> adopting the  
arrangement of so able an observer & one who has so  
thoroughly studied this difficult tribe of plants, and  
with the greatest ardour & under very favorable cir-  
cumstances. I have only to regret that I could not  
the advantage such a work is capable of affording for  
the whole of the order.

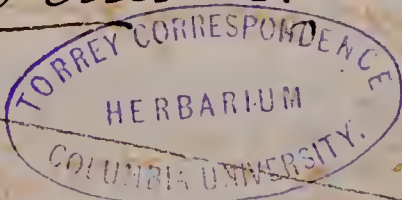
10/ Subtrib. II. Carduineae. Less.

15. Arctium. Linn.

Involucrum globosum. foliis squamosis  
lacunatis. Receptaculum paleaceum. Pappi:  
pappi simplex, multiserialis brevis, pappi sin-  
gulis valde caducis. - Herba distichome  
foliis petiolatis ovatis subtus pallidioribus

1. A. Lappula. Linn. Sp. Pl. p. 1149. Engl. Bot. t. 38.

Canada. Mrs. Perival. Linn. Heron. Dr. Todd.



16. Carduus. Linn. (Carduus et Cirsium  
Willd. et Cirsium Linn.)

Involucrum medium imbricatum, squamis  
spinosis. Receptaculum setosum. Pappi:  
pappi plumosus vel scaber. - Herba per totam zonam

temperatam divulgata nec non regiones asperas Americae tropice  
habitantibus, spinosa, capitulis lutes vel purpureis; caudice  
A. Lappula Linn. Sp. Pl. p. 1149. Engl. Bot. t. 38.

paleaceo. fimbriatis. (Less.)

Herb. t. 1. (Pappus plumosus. Cirsium, Willd.,  
Cirsium, Willd. Sp. Pl. p. 1149. Engl. Bot. t. 38.)

rigidis stigis.

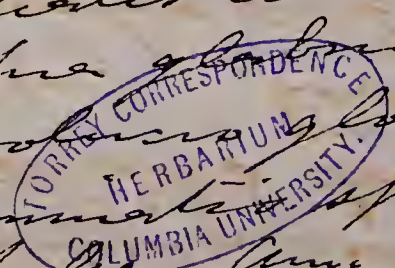
1. C. lanceolatus; foliis decurrentibus Cirsii:  
lanceolatis

acis pinnatifidis, laciniis bifidis divaricatis  
spinosis, involucri squamis lanceolatis pa-

tentibus. Linn. Sp. Pl. p. 1149. Engl. Bot. t. 107.  
Cirsium lanceolatum.  
Dr. Todd, Fl. Am. v. 2. p. 506. Engel. Fl. Mex.  
ed. 2. p. 292.

Herb. Newfoundland Miss Brewster.

2. C. discolor; pubescenti-lanata, foliis sepi-  
libus lanceolatis major minime sinuato-pin-  
natis spinosis ciliatis lobis acutis spinosis  
sepiissime bilobis pubes glabris subtus  
albo-tomentosis, involucri squamis  
squamis linearibus acuminatis spinosis, spinis



portantibus. - Nutt. Gen. Am. v. 2. p. 130. Cirsium  
discolor. Muhl. Cat. - Willd. Sp. Pl. v. 4. p. 1670.  
- 13. floribus albis.

2. L. 2478. St. (Bastardus)

*C. fuscata*, podetio elongatis levibus lividis subsordidior  
dichotomis, annulis imperforatis, ramis acicularibus can-  
natis, apiculis fuscatis divergentibus, fertilium apro:  
thesius fuscis. Ach. - Syn. herb. p. 276. ~~Woodw.~~ <sup>Hgt.</sup> Gill. Minse.  
t. 16-f. 27.

6-10-8-27.  
Karl. Inapicio asperis juxta Perote, alt. 1207 hene pod.  
[Regnum Mexicanum].

*C. canyferina*, prodictis elongatis cylindricis erectis scabri-  
 virentibus cinerascens ramosis, axillis subinde perfor-  
 atis, ramis apertis ramulosis, ramulis ultimis sub-  
 radiatis; apicibus mutabilibus fertilibus apothecio  
 subglobosis aggregatis fissis. Ach. *syn. Phil. h. 277. f.*  
*Bot. b. 173.*

Feb. In umbrasis cornuallii del Archivario ~~Francisco~~ <sup>Francisco</sup> Cuna:  
necsaam (Nova Andalusia).

Non differt a planta europaea; prodesta graciliora, crum-  
 cadia ramorissima inflexa, ramulis pinnatis divaricatis  
 aculeatis. Hec var. e. Limnanthes strum recepti.

*C. vermicularis*, prostratis subuliformibus subsingulis;  
caulis caulis albissimis subfistulatis glaucis  
prostratis. Ash. Syn. Hist. p. 270. P. Nutt. l. 2029.

*Hel. in planitie prope Speluncam Antisanæ, alt 2490  
hexapoda. Cladonia <sup>(Kütz.)</sup> hinc amara ad Stomachum corros.  
bonandum adhibetur sub nomine Contrayerva  
blanca. (Humb. Mus.)*

Wabunyes, Feb. 1. 279.

B. fungoides, crusta uniformi inaequaliter granulata com:  
 dicta, podetis elongatis basi immixtis, apotheciis  
 hemisphaericis difformibus albo. incarnatis. Ach.  
 Syn. Lich. p. 280. Swartz Lich. Americ. t. 13. p. 11.

*Hal.* In monte Coñe de Perote, regione frigida, regni  
Mexicani, alt. 1980 hexaspad.  
imbricatiss.

B. ~~Polycoccophora~~ <sup>imbricata</sup> (n. sp.). crusta squamulosa foliacea, car-  
tilaginea imbricata albo-glaucescenti, lobis digitato, la-  
ciniatis bifidisque apicibus subconvexis, podetiiis sub-  
cylindricis compressis, apotheciis convexis rufo-fuscis  
demum explanatis glicatriae.

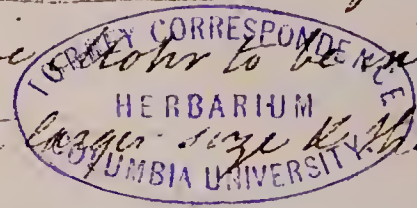
This is truly an alpine plant. Wahlberg observes justly that the portions of the stem above the earth appear perfectly simple, but that many of them really arise from a common root. Mr. Turner has well remarked what is the case with few Mosses that the leaves do not change their direction by being more dry or by being moistened, & that their color, which is pale, & shining surface is very striking.

B. carneum. Stem short; Leaves lanceolate, acute, serrulate at the points, reticulated, rather distant, nerve disappearing below the summit; capsule shortly pyriform, pendulous; lid conical.

Linn. Sp. Pl. Swartz. Turner Musc. Hib. p. 119. Engl. Bot. t. 360. Oryza delicatulum. Hedw. St. Cr. v. 1. t. 30. Glypnum carneum. Mohr.

B. pulchellum. Leaves approximated; capsule subglobose. Turner, Musc. Hib. p. 119. B. pulchellum. Hedw. St. Cr. v. 3. t. 38. B.

Stem rarely exceeding two or three lines in length. The leaves want the brighter green colors of its congeners. We have followed Mr. Turner in uniting to this species the B. pulchellum of Hedw. It is strange that Schwaeberchen should refer for his B. erythrocarpum to Mohr who says he cannot distinguish it from B. carneum, & if we can judge from Schwaeberchen's figure we believe Mohr to be in the right, the figure differing principally by the larger size & the nerve of the leaf reaching to the points.



B. argenteum. Stem short, branched; Leaves broadly ovate, suddenly acuminate, very concave, entire; nerve disappearing below the point; capsule oblongo-ovate, pendulous; lid conical.

Linn. Sp. Pl. Hedw. Sp. Musc. Swartz. Turner, Musc. Hib. p. 122. Engl. Bot. t. 1602. Wahl. Pl. Lapp. Glypnum argenteum. Mohr.

poris minutis subangulatis  
Hab. In p. Prope Loxa (Regnum Peruvianum).

xxx Piles integro stipite nullo.

B. reticulatus, (n. sp.) resupinatus centro affinis orbicularis,  
pallide fuscescens, pileo zonato pulcherrime reti-  
culatum venoso; poris majusculis exacte heu-  
gonis ~~sp.~~ substantia spongiosa fo. retis.

Hab. In p. Andium, regione temperata inter  
Poyayan et Almaguer.

Pulcherrima species, seminas lata, tenuis

xxxx Piles dimidiato, stipite nullo.

B. tenuis, (n. sp.) dimidiatus, pileo albo-fuscescenti  
zonato levigato, poris fuscis majusculis exacte heu-  
gonis.

Hab. In p. Andium, regione temperata inter Po-  
yayan et Almaguer.

Substantia pororumque forma multam habet affini-  
tatem B. reticulato: <sup>sed</sup> pileo pallidior levior ~~poris~~ dimidiato  
porisque raris.

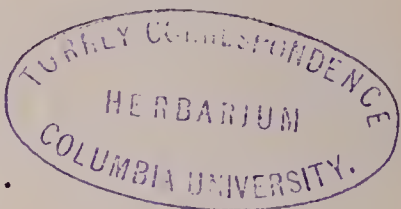
B. fibrosus (n. sp.) dimidiatus nigro-fuscus, pileo zonato  
subundulato fibris numerosis ramosis villosis, margine  
fimbriato, poris minutis angulatis.

Hab. In p. Andium, regione temperata inter Po-  
yayan et Almaguer.

An B. hydroides Swartzii eadem? Alex. Fovelo linit,  
Al. Belvisii poris minutis diorsis.

B. thelephoroides, (n. sp.) dimidiatus, pileo pallide  
fusco longitudinaliter rufo subflexuoso, poris  
saturneolibus minutissimis.

Hab. Prope Loxa, in stylis Anthonis





Hal. Loris scopulorum aridis, apicis junctae Tiocaxas  
et Guamote, altit. 1600 hexapod. (Regnum hintense)  
caute soluta ut in plerisque Cenomyces venis. Valde  
affinis B. planophyllo Ach., sed lobi vel squamae pro-  
fundius incisae magisque cartilagineae.

Stereocaulon (Ach. p. 284.)

S. caespitosum, thallo albo pallescente ramoso scabro  
fibrilloso, ramis sparsis elongatis, subsimplicibus, ap-  
otheciis terminalibus, cum subglobosis fusco-rufis.  
Ach. Syn. Lich. p. 284. Swartz Lich. Amer. t. 14. Lichen  
salazinus. Bory de St. Vins. Voy. t. 16. p. 3.

Hal. In monte Cofre de Perote in pinetis alt. 91950 hex-  
apod. (Regnum Mexicanum).

S. botryosum, thallo albo-cinerecente basi subnudo  
superne densissime caespitoso, ramulis ultimis in  
granula conglomerata abeuntibus, fertilium apothecio  
congestis minimis obscure fuscis. Ach. Syn. Lich. p. 284.  
Ständer Vesuvianum Pers. in Art. Sa. Motu. v. 2. t. 10. p. 5.

Hal. In planitie prope speluncam Artisan, alt. 2490  
hexapod.

Vix a S. paschali distinctum.

Ramalina (Ach. p. 293.)

R. polymorpha, thallo plano-compresso vel teretiusculo  
laciniato-ramoso pallido longitudinaliter lacunoso  
sorediis sparsis subellipticis terminalibusque capi-  
tuliformibus, apotheciis submarginalibus conseriatis,  
aulis, disco carneo subpinnato. Ach. Syn. Lich. p. 295.

Hal. In salis maritimis prope Chancay in littore  
Oceani pacifici, Peruvian alluentis (una cum Borella  
Antonia).

R. fraxinea, thallo plano linear-laciniato albo-ci-  
nerescente utrinque glabro rugoso-lacunoso, subre-  
ticulato, laciniis ultimis lanceolatis. attenuatis, ap-  
otheciis marginalibus planis carneo-pallidis. Ach. Syn.  
Lich. p. 296. P. Barb. t. 1704.

Hal. Ad rivos Refugio glauco, altitudine 950 hexapod.

B. julaceum. Stem branched; leaves closely imbricated, broadly ovate, concave entire, obtuse, nerve running nearly to the point, capsule clavate; pendulous; lid conical.

Schrader, Spicileg. p. 70. Engl. Bot. t. 2270. B. filiforme. Dicks. B. argenteum.  $\beta$ . Linn. Sp. Pl. Schwaegr. Hypnum argenteum. var.  $\beta$ . Mohr.

The characters just recited we have found constant in our B. julaceum, & we therefore cannot agree with Mohr & Schwaegrichen who with Linnaeus considered it as merely a variety of B. argenteum. It is not in the shape of the leaves & of the capsules alone that they differ, but our plant is larger & more slender, of a yellowish green color, resembling that of Hypnum stramineum & the leaves are of the same color & texture throughout.

This plant too is never found on walls & roofs, as is commonly the case with B. argenteum, but on the side of streams in mountainous situations.

B. alpinum. Stem elongated, ramose; leaves ovato-lanceolate, nearly obtuse, margins revolute, subserulate at the points, nerve nearly reaching the points; capsule cylindraceo-obovate, pendulous; lid conical.

Linn. Mantiss. Swartz Musc. Succ. Turner Musc. Hib. p. 125. Engl. Bot. t. 1623. Schwaegr. Suppl. t. 73. Wahl. Fl. Lapp.

The leaves of this species which are of a singular purplish-brown color, & dense structure, in all our specimens are never completely acute, as represented by Schwaegrichen & most authors. The stems approach in rigidity & habit those of some of the Polytricha.

B. crudum. Stem short; Leaves lanceolate, plane, acute, serrulate at the point, nerve disappearing below the summit; capsule oblong, pendulous; lid conical.

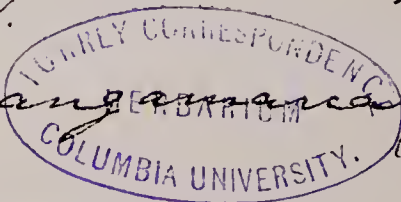
Huds. Fl. Angl. p. 491. Swartz Engl. Bot. t. 1604. Turner. Musc. Hib. p. 130. Mnium crudum. Linn. Mediv. St. Cr. v. 1. t. 37. Wahl. Fl. Lapp.

Hab. In aridis montanis juxta Santa Rosa (Provincia de Guanajuato in regno mexicano).

Bovista. (Pers. p. 136.)

B. nigrescens, major nigrescente-umbrina, sulcus plicata. Pers. Syn. Ot. p. 136. Lycopodium Bovista Sow. Bot. Lempi. t. 331.

Hab. In aridis prope Guayangamarca (Andes del Peru) alt. 1250 hexapod.



Agaricus. (Pers. p. 257.)

A. umbilicatus, <sup>(n. sp.)</sup> stipitatus aggregatus, stipite centrali exannulato breviusculo, pileo fusco convexo floccoso centro insigniter depresso, lamellis pallidoribus.

Hab. In jugis Andium, regione temperata inter Po: Payan et Almaguer.

Scedalea (Pers. p. 499.)

S. levis, <sup>(n. sp.)</sup> dimidiata breviter lateraliter stipitata pallida flavo-fusca, pileo leviglabro, similibus elongatis rectis.

Hab. In jugis Andium, regione temperata inter Po: Payan et Almaguer.

Boletus. (Pers. p. 503.)

x Pileus integro stipitato, stipite centrali.

B. Katri, (~~Mesopus~~) infundibuliformis, membranaceus stipitatus, stipite subcentrali, pileo levi nitido supra zonato fusco-umbrino, sulcus poris minimis levibus subrotundis perforato pallido. Ehrenberg in Nees ab Esenbeck Nov. Phys. Berol. p. 93. t. 19. f. 12 (fig. bona).

Hab. In umbrosis juxta Acapulco, ad litus maris paci: fiii.

xx Pileo dimidiato stipitato, stipite laterali.

B. opathulatus, <sup>(n. sp.)</sup> parvus stipitatus, fulvus, stipite laterali elongato crasso, pileo convexo lato obovato

